

THE ARCHON

VOLUME XXV


MARCH 16, 1938

NUMBER 5



THE ORIGINAL SCHOOLHOUSE BUILT 175 YEARS AGO

GOVERNOR DUMMER ACADEMY, SOUTH BYFIELD, MASSACHUSETTS



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THE ARCHON

Volume 25

SOUTH BYFIELD, MASS., WEDNESDAY, MARCH 16, 1938

Number 5

FIFTH ANNUAL SCIENCE SHOW TRACES DEVELOPMENT OF RADIO

On Saturday evening, March 5, a group of boys from the science classes under the direction of Mr. Kirk of the faculty presented Governor Dummer's fifth annual Science Show in the Lang Gymnasium, a demonstration of the history of the radio entitled *From Hertz's Leyden Jar to De Forest's Vacuum Tube*.

More ambitious than in the past, the Show was made up of two series of radio demonstrating apparatus, transmitters and receivers. The transmitters were arranged on one side of the stage and the receivers on the other. Messages were sent out by the transmitters, each of which represented a step in the development of the art of radio, and these were picked up and amplified by a loud-speaker which was used in place of earphones so that the audience could hear the messages.

The radio equipment was built in the physics laboratory by the following boys: Leonard Ellis, David Hunter, Benjamin Joy, Niles Perkins, Leonard Poor, and Paul St. George.

Mr. Kirk directed the explanation of the demonstrations, outlining radio's historical development from material compiled by Thomas Johnson.

A screen was hung over the stage, and a series of slides was used to illustrate the technical theories involved. Schematic drawings of the experiments, which were made by Hugh Byfield and William MacDonald, were shown on the screen.

Slides made from photographs of the actual apparatus used on the stage were shown, along with a group of slides loaned by Mr. R. A. Heising, of the Bell Telephone Laboratory in New York, who has himself made several of the more recent contributions in the field of radio invention.

John Gannett and Robert Seavey acted as technicians for the Show and handled the projecting.

As each demonstration was shown, the boys who had worked out the apparatus explained the technical details involved in the sending and receiving.

One of the earliest De Forest vacuum tubes, of great historic interest, was also on display

(Continued on Page 9)

SCHOOL ENJOYS SECOND TRIP TO NEW HAMPSHIRE SKI TRAILS

On Sunday morning, March 6, nearly the entire student body left Newburyport on a special train for the school's second annual winter sports trip to New Hampshire. Arriving at Intervale, New Hampshire, shortly before noon, the party was taken in cars to the Eagle



Photograph by Allen Shott
DOWNHILL RUN AT JACKSON

Mountain House at Jackson, reserved by the school for the occasion.

Snow conditions were fair, with no powder snow to improve a rather hard-packed surface, but the surrounding hills were soon broken in by the 125 skiers and tobogganers.

Dinner was served in the hotel dining room at 6 o'clock, and following a meeting of the school in the hotel lobby, movies were shown.

A ski instructor in the Eastern Slopes Ski School explained the ski movies as they were shown on the screen.

On Monday the entire group was out skiing, snow-shoeing, and climbing mountain trails. A group of masters and boys enrolled for ski lessons in the Eastern Slopes Ski School.

(Continued on Page 2)

HONOR ROLL FOR FEBRUARY
1938

First Honors	Second Honors
*Peter Hill	*Edwin Sheffield
*Thomas Johnson	*Fred Heyes
*John Eshelman	Harold Audet
*Richard Merrill	Macomber Lord
*Edward McDowell	*Theodore Lacey
*Henry Cleaveland	Benjamin Joy
*Robert Olander	John Dunlap
*Alan Bullwinkle	William McGill
* Indicates name has been on all Honor Rolls this year.	

ST. MARK'S SCHOOL AND ANDOVER
MEN SPEAK AT SUNDAY VESPERS

Mr. Horace Pointer of the Latin department at Phillips Academy, Andover, was the Vespers speaker on February 27.

Mr. Pointer's topic was *What's on your mind?*, and he contrasted the use made of the mind by two types of men.

One type was illustrated by a man striving to fill his mind with beautiful images and beautiful thoughts in a race against blindness. The other type of man was characterized by the average student of today who fills his mind haphazardly with trivial matters, of no consequence and of no lasting value.

Mr. Pointer showed that we do not need to be confronted with the tragedy of blindness in order to use our minds for a high and worthwhile purpose.

Dr. Francis Parkman of St. Mark's School

Dr. Francis Parkman, Headmaster of St. Mark's School, was the speaker at Vespers on March 13.

Taking as his text St. Paul's definition of charity, Dr. Parkman said that charity is a virtue particularly needed among boys, who through thoughtlessness are often uncharitable to their fellows.

To follow the golden rule and to respect the rights and feelings of others is the best course, since this will cause us to be less critical of others and more conscious of our own limitations.

True charity has its basis in putting the best possible interpretation on the actions and words of others. School boys are often lacking in charity when they laugh at the mistakes of others, scorn the high ideals which their fellow students may be striving to achieve, and say thoughtless, unkind things of boys who have different manners or personal traits.

GIFT RECEIVED FOR REMODELING
ORIGINAL SCHOOLHOUSE OF 1763

The restoration of the Little Red Schoolhouse, built in 1763, will be started soon. The Reverend Glenn Tilley Morse, a member of the school's Board of Trustees, has made this work possible by a gift.

Mr. William G. Perry of Newburyport and Boston, a member of the firm of Perry, Shaw and Hepburn of Boston is the architect in charge of the restoration. Mr. Perry is an outstanding authority on this type of work and was in charge of the rebuilding of Williamsburg, Virginia. He is particularly fitted for the task by virtue of his familiarity with the Academy and its historical traditions. Mr. Perry was also the architect for the Lang Gymnasium.

The old schoolhouse has had a varied career since it was last used for classes. After serving as the school building in which Master Moody and others held their classes, it was finally moved to its present location between Perkins House and Moody House. It was then used in the summers by the ladies of Adlyarood as a chapel, and it was at this period that the bell tower was added.

In recent years the school store has been located in the building, and two years ago the school postoffice was also installed in it.

The store and postoffice have already been moved to the former art studio under the Library. During the spring vacation Mr. Woodbury's shop will be moved to one of the buildings on the Noyes Farm, and the art studio will be built into the present shop.

JACKSON SKI TRIP

(Continued from Page 1)

In the morning, Mr. Benjamin Podmaniczky took charge of slalom races, and the large number of boys competing was divided into B and A groups for novices and experts. The best time for the fast downhill course was turned in by Jack Haley of the B group, who covered the course in 24 seconds. Second place was held in a triple tie by Sandor Podmaniczky, Burwell Glenny, and Bill Cochran, all of A division, who made the run in 25 seconds. Mr. Wickenden of the faculty came in later in the unique time of 4 minutes.

The special train for the return trip left Intervale at 6 o'clock and arrived at Newburyport at 9 p. m. A luncheon of cocoa and sandwiches was waiting for the party when it arrived back at school.



Photograph by James Deupree

THE GLEE CLUBS OF THE BANCROFT SCHOOL AND GOVERNOR DUMMER
Singing in a recent joint concert presented in the Lang Gymnasium.

GLEE CLUB TO GIVE CONCERT AT MONTCLAIR, N. J. TOMORROW

The fifty-six members of the school Glee Club will leave Boston tomorrow morning at nine o'clock on its trip to Montclair, New Jersey, where a concert will be given tomorrow evening at the Upper Montclair Women's Club.

Boys on the club who do not live in Montclair or nearby will be guests of several families of Governor Dummer boys for over night.

Miss Margaret Aue of Montclair will give several cello selections on the concert program, including Kriesler's *La Gitana*, Popper's *Mazurka*, *Dance du Diable Vert* by Cassado, and *Intermezzo* by Vivaldi.

A dance will be given for the members of the Club following the concert, and Raymond Jones, '34, has assisted in making the arrangements for it.

The Patronesses of the concert are: Mrs. Randolph C. Barrett, Mrs. Edgar A. Bates, Mrs. Homer S. Black, Mrs. Ralph H. Bollard, Mrs. Frank D. Brewer, Mrs. C. A. Capron, Mrs. J. Clydesdale Cushman, Mrs. John M. Davidson, Mrs. Samuel S. Hall, Jr., Mrs. G. E. Huggins, Mrs. Raymond E. Jones, Mrs. William W. Patton, Mrs. Howard Peck, Mrs. Lyster Reighley, 2d., Mrs. John J. Schumann, Mrs. Russell M. Simons, Mrs. Fred H. Taylor, Mrs. Howard Van Vleck, Mrs. Thomas N. Willins.

The revised vacation dates require boys to be back at school for dinner at 6:30 P. M. on April 7, instead of April 6 as previously announced.

SCHOOL SCIENCE SHOW GIVEN AT HARVARD FOR SCIENCE MEN

On Saturday, March 12, the Science Show which was given a week before at school, was presented in the Biology Lecture Hall at Harvard University.

The boys who took part in the school presentation also carried out the demonstrations at Harvard.

The Show was presented under the auspices of the Harvard School of Education as part of the program arranged for the annual meeting of the Harvard Teachers Association. An audience of more than seventy-five was present, among whom were many science teachers from New England high schools and preparatory schools.

Following the Show, the boys attended a lecture at M. I. T.

ACADEMY CAMERA CLUB JOINS EXETER CLUB IN EXHIBITION

A recent exhibition of photographs in the dining hall was presented by the Governor Dummer Camera Club in conjunction with the Exeter Camera Club. The collection consisted of sixty-one pictures under the general title of *Winter*.

Those boys exhibiting were: Norman Fox, John Newman, Clifford Sinnett, Robert Seavey, Gordon Ellis, Robert Hoffman, Macomber Lord, Kimball Eastman, James Deupree, Donald Stockwell, and Edward Warner.

After the exhibit was taken down here, it was transported to Exeter, where it was on display for a week.



Photograph by Bachrach

PRODUCERS OF THE RADIO SCIENCE SHOW

First Row: William MacDonald, David Hunter, Niles Perkins, Leonard Poor, Leonard Ellis.

Second Row: Thomas Johnson, Mr. L. R. Kirk, Benjamin Joy, Hugh Byfield.

More Briefly

Tonight at 8 P. M. the Glee Club will give an informal concert in the Gymnasium, presenting the program which will be used in the Montclair concert tomorrow night.

Mr. Walter Kidder of Boston, will sing two groups of baritone solos. Mrs. Benjamin Stone will accompany Mr. Kidder.

Many friends of the school who live nearby have been invited to attend.

* * *

A daughter, Lesje Juiliana, was born on February 14 to Mr. and Mrs. Charles D. Brodhead. Mr. Brodhead was a history master at Governor Dummer a few years ago.

* * *

Four newcomers to the school Honor Roll are Macomber Lord, Benjamin Joy, John Dunlap, and William McGill, all of whom won Second Honors for February.

ENGLISH CLASSES HEAR LECTURE

On Sunday afternoon, March 13, Miss Marianna Jenkins of the Boston Museum of Fine Arts lectured in the Library on *Elizabethan England*.

The lecture was arranged by Mr. Mercer for the benefit of the English classes, several of which have just completed a term's work in Shakspeare.

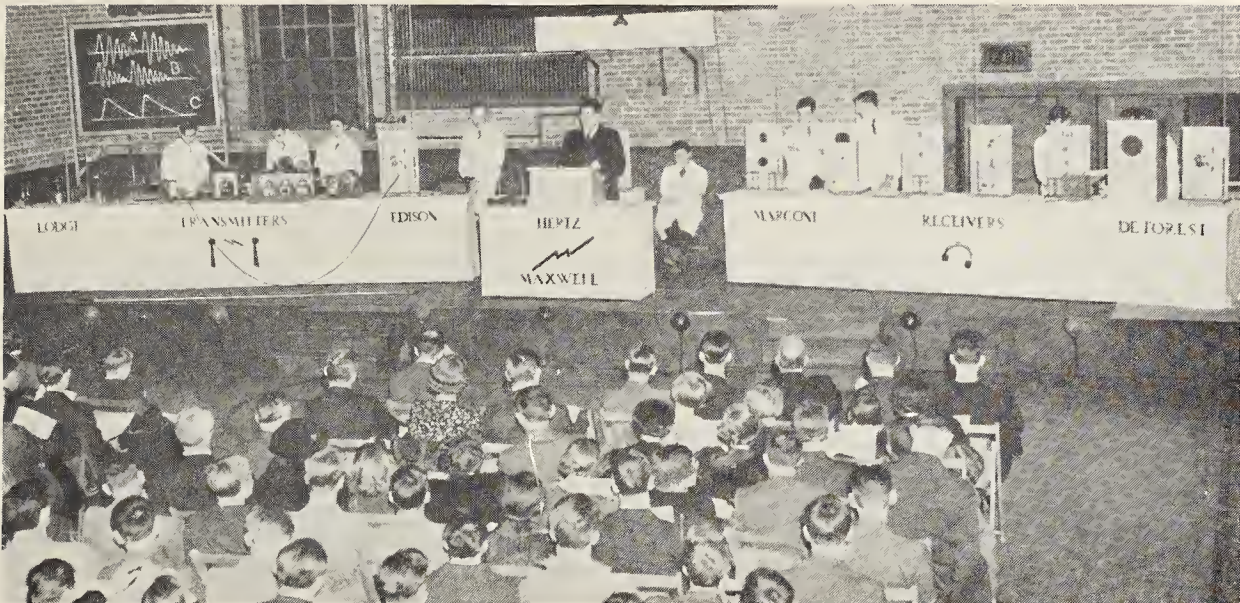
Miss Jenkins' talk was illustrated by many fine photographs which gave a clear idea of the men and manners of Elizabeth's reign.

The pictures included many 16th and 17th century prints and paintings, and these were left at the school and used by various English classes this week.

The lecture and pictures are part of a series prepared by the Museum's Extension Service, and they proved so interesting that it is hoped that more lectures may be given next term.

THE FIFTH ANNUAL SCIENCE SHOW

By THOMAS L. JOHNSON



Photograph by Rudolph Currier

SCIENCE STUDENTS BROADCASTING AND RECEIVING MESSAGES

The underlying idea of Governor Dummer's Science Show which was given at the Academy two weeks ago, came into the minds of some members of the physics class sometime in January. Although two or three boys were radio enthusiasts, they realized as did the others that their knowledge of the basic principles of radio was nebulous.

At about that time, a group of eleven boys, under the science teacher's direction, started the preparation of the apparatus, the commentary, and the lantern slides which developed into the 1938 Science Show.

The work could not have progressed much without the willing aid of several radio inventors and experts who helped shape the plans for the Show. Professor Warren Horton of M. I. T. made valuable suggestions about laying out the circuits for the various apparatus. Professor G. W. Pierce of the Cruft Radio Laboratory at Harvard provided much material. Mr. R. A. Heising of the Bell Telephone Laboratories contributed a number of slides and unusual material concerning modulation. Mr. G. W. Pickard of Salisbury made many helpful corrections in the work of the boys as the Show developed. Mr. E. S. Purington, Chief Engineer of the Hammond Radio Research Corporation at Gloucester also gave valuable advice and assistance.

It is true that the audience was taken aback by the concentrated mass of knowledge presented, and it was probably too much to assume that any such audience would grasp in

ninety minutes, the principles which the demonstrators has been studying for nine weeks. But certainly the immensity of the subject was revealed to everyone, and I believe that even those who thought themselves quite submerged in the intricacies of radio will sooner or later discover that they did acquire some basic facts after all—even though their principle recollection is that the rotary spark gap creates a large spark accompanied by a deafening noise. If this is so, the Show was worth while.

The difficulty of understanding increased geometrically as the demonstrations proceeded. The first experiment—that of the syntonized Leyden jars demonstrated by William MacDonald—was simple. Its operation was visible to the eye.

The coherer, which was described by Hugh Byfield, was highly important in the experimental days of Marconi, and its demonstration was clear to the man in the street if he exercised some concentration.

From this point on the vital point to bear in mind was that code or speech is transmitted through space. For six successive demonstrations—from the cohere to the triode circuit—Leonard Ellis operated the various apparatus for spark transmission. Of these, the most spectacular were the rotary spark gaps, which no doubt affected people who were many miles from the gymnasium by a burst of static on their radios.

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THE ARCHON

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EDITORIAL

This term just ended has been outstanding in many ways as compared with other winter terms, and although at times it has seemed long and hard, the months have sped by as they never have before. It is perhaps interesting to mention some of the aspects of the term which have made this true.

Since January there has been no real scholastic slump, which in general is a dangerous possibility during the long winter months of classes. No special study halls have been necessary to keep the boys' work up to standard. Although the grade averages are not so high for the last month as they were for January, this is undoubtedly due to longer and stiffer assignments rather than to lack of effort on the part of the boys.

The various athletic teams have had better luck with the weather and playing conditions than last year. The hockey squads particularly have had better rinks and more smooth ice than usual, and this has been due in large part to the great effort and fine cooperation of Mr. Woodbury and his staff.

The basketball court was refinished and new walls were installed which greatly improved playing conditions for the many practices and games of the various basketball squads.

Because this month marks the 175th year since Master Moody held his first class in the Little Red Schoolhouse, plans have already been laid out which will result in an unusually interesting celebration of the anniversary at Commencement in June.

The Reverend Glenn Tilley Morse has made possible the remodeling of the original schoolhouse, which will be finished in June, and in connection with this, the school store, the art studio, and the school shop are being moved into bigger and more convenient locations.

The school again went on a ski trip to New Hampshire, and the two days of winter sports at Jackson came as a welcome recess toward the end of the term.

As a climax to the winter term, the Glee Club leaves tomorrow morning for a concert in Montclair, New Jersey, an exciting event for the members of the Club which constitute nearly half of the student body.

A school must move forward to be successful: simply maintaining the status quo is not enough. The events of the term now finished mark forward steps in many directions.

G. L. H., 3d.

Alumni Notes

Charles Fellows, '37, was a recent visitor at the school. He is a member of the Yale Freshman rifle team.

* * *

Dick Curtis, '37, is doing big things in track at Massachusetts State. He is competing in various field events and recently gained a first, second, and a third place in a meet with Amherst Freshmen. Dick has been pledged by the Theta Chi Fraternity.

* * *

John Hinchman, '34, visited the school recently, bringing with him the school's working model of a steam engine which John has completely rebuilt.

* * *

Among the graduates who have been back during the past month were John Hollingsworth, '37, Marvin Fox, '36, Art Ross, '37, and Bill Earnshaw, '36.

* * *

Walter Comfort, '34, captain of the Williams wrestling team, visited the school recently after winning his match in the Williams-M. I. T. wrestling meet at Cambridge. Martin Busch, '36, wrestled on the Williams team in the same meet.

Comfort is a member of the Alpha Delta Phi Fraternity at Williams.

WRESTLING TEAM ENDS SEASON WITH A VICTORY

WRESTLING TEAM ENDS SEASON; DEFEATS BROWNE AND NICHOLS

On March 9, the Governor Dummer wrestling team closed its season by defeating the Browne and Nichols School by a score of 12½ to 11½.

Bill Ferris won for the Governors, when he gained the decision over his 145-pound rival, Patterson. Bill nearly pinned his man twice, but he could not seem to exert the extra strength to force Patterson's shoulders to the canvas.

Bill Cochran ran into trouble with Captain Nickerson in the 155-pound class, finally being pinned with a reversed double-bar arm in 1:20.

In the 165-pound class, Captain Tom Tenney pinned his man in 3:04 with a double bar-arm-overhead.

Hugh Byfield, 175-pounder, won his match over Stone of Browne and Nichols on a referee's decision.

118-lb.: Borkowski (GD) and Manfield (BN), draw.

135-lb.: Reeves (BN) pinned Podmaniczky (GD), with a bar-nelson, 1:59.

145-lb.: Ferris (GD) defeated Patterson (BN), decision.

155-lb.: Captain Nickerson (BN) pinned Cochran (GD), with a reversed double-bar arm, 1:20.

155-lb.: Pierce (GD) defeated Johnson (BN), decision.

165-lb.: Captain Tenney (GD) pinned Brennan (BN), with a double-bar arm-overhead, 3:04.

175-lb. Byfield (GD) defeated Stone (BN), decision.

BABSON INSTITUTE CONQUERED BY ACADEMY BASKETBALL TEAM

The school basketball team defeated Babson Institute in the Lang Gymnasium on Saturday evening, February 26, by a score of 43 to 25. The Governors outplayed the visitors and led the scoring throughout the game.

Captain Russ Simons opened the scoring with two quick baskets, and Mike Lawler and Ed Warner sank some long angle shots from mid-court. The first period ended with the Governors well in the lead.

Babson made several determined attacks in the next period, but the Governors' basket eye was good, and the score stood 21 to 14 for the home team at the end of the half.

Gordon Vaughan, who graduated from Governor Dummer last year, played a forward position for Babson, and did some strong defense work against Russ Simons.

In the last part of the game, Bob Schumann went in and dropped a spectacular long shot. The game ended with the Governors leading by a 43 to 25 score.

Governors	G	F	P	Babson	G	F	P
Lawler, r.f.	6	0	12	Cropper, l.g.	2	0	4
Hewitt, l.f.	1	0	2	Gorman, l.g.	1	0	2
Schumann, l.f.	1	0	2	Vaughan, r.g.	2	0	4
Warner, c.	7	3	17	Knight, c.	1	0	2
Cleaveland, c.	1	0	2	Butler, l.f.	4	1	9
Koslowski, r.g.	0	2	2	Birch, r.f.	2	0	4
Simons, l.g.	3	0	6				
	—	—	—		—	—	—
Totals	19	5	43	Totals	12	1	25



Photograph by N. Morey Eames

THE ACADEMY MOVES INTO THE SNOW-BELT FOR TWO DAYS' SKIING
The practice slope at the Eagle Mountain House, Jackson, N. H., where 126 boys and masters enjoyed two days of winter sports.

BROWNE AND NICHOLS TRACKMEN WIN CLOSE DUAL MEET, 36 - 27

In a dual meet with the Browne and Nichols School at Cambridge on Friday, March 11, the school track team lost by a score of 36 to 27.

The Browne and Nichols team was an exceptionally strong schoolboy aggregation, with Nickerson outstanding by virtue of running in both the 600-yard and 1,000-yard events, taking first place in each, and winning a third place in the shot put.

Niles Perkins took another first place in the shot put with a throw of 47 feet, 10 inches—7 inches less than he made in the Harvard Private School Meet.

Dave Huggins won the high jump with a leap of 5 feet, 4 inches.

40-Yard Dash: Reeves (BN) first; Sheeline (BN); Patterson (BN); 4:08.

1,000-Yard Run: Nickerson (BN) first; Bell (GD); Poor (GD); 2:37.

45-Yard Hurdles: Sheeline (BN) first; Noble (GD); Reeves (BN); 5:09.

Shot Put: Perkins (GD) first; Olander (GD); Nickerson (BN); 47 ft. 10 in.

High Jump: Huggins (GD) first; Cochran (GD); Brennen (BN); Miller (BN); triple tie; 5 ft. 4 in.

600-Yard Run: Nickerson (BN) first; Patterson (BN); Bullwinkle (GD); 1:23:4.

300-Yard Run: Reeves (BN) first; Noble (GD); G. Ellis (GD); 35:2.

WRESTLERS LOSE TO ANDOVER RESERVES AS TOM TENNEY WINS

On February 27, the Governor Dummer wrestling team traveled to Andover to wrestle the Andover Reserves informally, losing the meet, 34 to 6.

Captain Tenney wrestled Byrd of Andover, previously undefeated and regarded as one of the finest wrestlers in his class in the East, defeating him on a decision.

Bill Ferris was able to stay on top of his man throughout his match, and won on a decision.

118-lb.: Calkins (A) pinned Borkowski (GD), 2:10.
126-lb.: Reader (A) defeated Pitcairn (GD), decision.

135-lb.: Applegate (A) pinned Quirk (GD), 4:10.
135-lb.: Perkins (A) pinned Podmaniczky (GD), 4:10.

145-lb.: Ferris (GD) defeated Frank (A), decision.
155-lb.: Macawer (A) pinned Rogers (GD), 3:03.

155-lb.: Davis (A) defeated Cochran (GD), decision.

165-lb.: Tenney (GD) defeated Byrd (A), decision.
175-lb.: Hood (A) pinned Henrich (GD), 4:50.

Heavy: Horowitz (A) defeated Byfield (GD), decision.

CAPTAIN SIMONS LEADS FIVE TO VICTORY IN FINAL GAME

On March 12, the Governor Dummer basketball team wound up its season by defeating the M. I. T. Freshmen, 43 to 38. The game was evenly played throughout, but the drive exhibited by the Governors was the deciding factor.

Johnny Koslowski opened the scoring with a long shot from the center of the court, and Captain Russ Simons matched that with two more scores, one long shot and another under the hoop. The score at the end of that period was 8 to 4 in favor of the Governors.

The second quarter was faster than the first, and the play was more in favor of the M. I. T. men. They tossed in several shots from the side of the court, and a few baskets were scored on passes under the hoop.

The third quarter was marked by the heady playing of Russ Simons and Mike Lawler. They frequently intercepted passes at mid-court and dribbled down for the score. The defensive work of Ed Warner and Charlie Hewitt also stood out in that period. Toward the close of the ten minutes, the Governors scored six points within less than two minutes, and that quarter ended with the score 31 to 22 in favor of the Governors.

The fourth quarter was the most exciting one of the game. The M. I. T. boys pulled up to within five points of the Governors, and then baskets by Russ Simons, Mike Lawler, Ed Warner, and Charlie Hewitt set up a substantial lead.

At the end of the game, the M. I. T. team put on a spirited spurt, but the air-tight defense work of the Governors held the score down. The game ended with the score 43 to 38 in favor of the Governors.

Captain Russell A. Simons, after his last game for Governor Dummer said, "It was a great way to end the season. The team has been scrapping hard all season, but they haven't scrapped before as they did today. Credit does not go to any one person. It was a great game, a great season."

This victory made the record for the team nine wins and three losses.

Governors	G	F	P	M. I. T. '41	G	F	P
Lawler, r.f.	5	1	11	Click, l.g.	1	0	2
Hewitt, l.f.	2	0	4	Goldzog, l.g.	4	0	8
Warner, c.	3	0	6	Conti, r.g.	4	0	8
Koslowski, r.g.	3	1	7	Russe, c.	2	0	4
Simons, Capt., l.g.	7	1	15	Herzog, l.f.	3	1	7
				Samuals, r.f.	4	1	9
Totals	20	3	43	Totals	18	2	38

ANDOVER JUNIOR TEAM DOWNS BASKETBALL LIEUTENANTS, 34-12

On Saturday, February 26, the Governor Dummer second basketball team went to Andover to play Phillips Academy's junior team, and was routed to the tune of 34 to 12.

Throughout the second half, the Lieutenants showed considerable improvement over their previous form. In this period, the school team outscored its opponents, five to four. The high scorer for the game was Adolph Wochomurka.

The Governor Dummer line-up was: John Eshelman, r.f.; Adolph Wochomurka, l.f.; Brooks Merritt, c.; John Barrows, r.g.; Philip Hastings, l.g.

PERKINS TAKES FIRST PLACE IN SHOT-PUT AT M. I. T. MEET

On March 5, several members of the winter track team competed with six other schools in the Harvard Private School Meet at M. I. T. in Cambridge. Governor Dummer placed fifth with 9 points in the meet which was won by Roxbury Latin School.

Niles Perkins took first place in the shot-put with a toss of 48 ft. 5 in. Alan Bullwinkle and Captain Jack Bell both gained fourth places in the 600-yard and 1,000-yard runs respectively.

THE FIFTH ANNUAL SCIENCE SHOW

(Continued from Page 3)

The larger of the spark gaps was constructed by Leonard Ellis and Mr. Lowell of the faculty. The crystal circuit was demonstrated by Benjamin Joy. The addition of a tuning coil to this circuit, the ubiquitous Quaker Oats box, was explained by David Hunter.

Next, the increased noise produced in the "earphones" revealed the significance of the introduction of the two- and three-element vacuum tubes by Fleming and De Forest respectively. These were described by Leonard Poor.

The apparatus involving the introduction of the vacuum tube as a transmitter and the regeneration circuit were handled by Niles Perkins and David Hunter. These two apparatus were the most difficult to construct of all the equipment used in the Show.

Finally, the general meaning of "modulation" and its history in radio was explained by

Thomas Johnson. Then followed a demonstration by Paul St. George, Niles Perkins, and David Hunter in which a successful transmission and clear reception was accomplished with music. Records of *Loch Lomond* in a swing version and *El Capitan March* were broadcast from one side of the stage to the other. The musical selections were chosen by Leonard Poor and Mr. Kirk, and it seems unnecessary to say who chose which.

As an introduction to each demonstration, Mr. Kirk gave an explanation, accompanied by lantern slides which were made from photographs of the apparatus and of the drawings of Byfield and MacDonald.

Throughout the Show, the participants were complimented, if not perhaps somewhat distracted by the galaxy of photo-flash bulbs set off by members of the Camera Club at seemingly split-second intervals.

After the Show, the apparatus was on display. (The current however, was cut off so that no curious inspector might find himself the conductor of the 10,000 volts utilized by the spark gap, to which he would naturally be attracted.)

The Science Show is by far the most ambitious and difficult of all the shows tackled up to this time, and in spite of this the participants feel that their undertaking has been the most interesting and profitable job they have ever undertaken. To many of the audience, it no doubt seemed more of a lecture than a "Show", but nevertheless many will eventually find out that they have at least an inkling of comprehension about the facts behind radio. Many will realize that their knowledge of radio is now more than a twisting of the dial which brings out music. It cannot be other than a satisfaction to know something about the reasons *why* the music goes round and round and comes out there.

DEVELOPMENT OF RADIO TRACED

(Continued from Page 1)

and was loaned by the Hammond Radio Laboratory. A rotary spark gap built in the school laboratory, was used for demonstration.

The final demonstration was the broadcasting of music by a modulated vacuum tube with oscillatort which was received on a three-element tube, or triode. This demonstration illustrated the latest important principle of radio, and indicated the great steps which have been made since Hertz's discovery of 1887, which was the subject of the opening experiment of the Show.

*Governor Dummer
Academy's*

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